



Sustainable City Development in Portland, Oregon

Air Innovations Conference
Chicago, August 2005

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Portland's development story

- Underlying Comprehensive Planning and urban growth boundary
- Global warming, energy, and green building policies
- Integration of transportation and development planning
- Results: Improved air quality and reduced CO₂ emissions

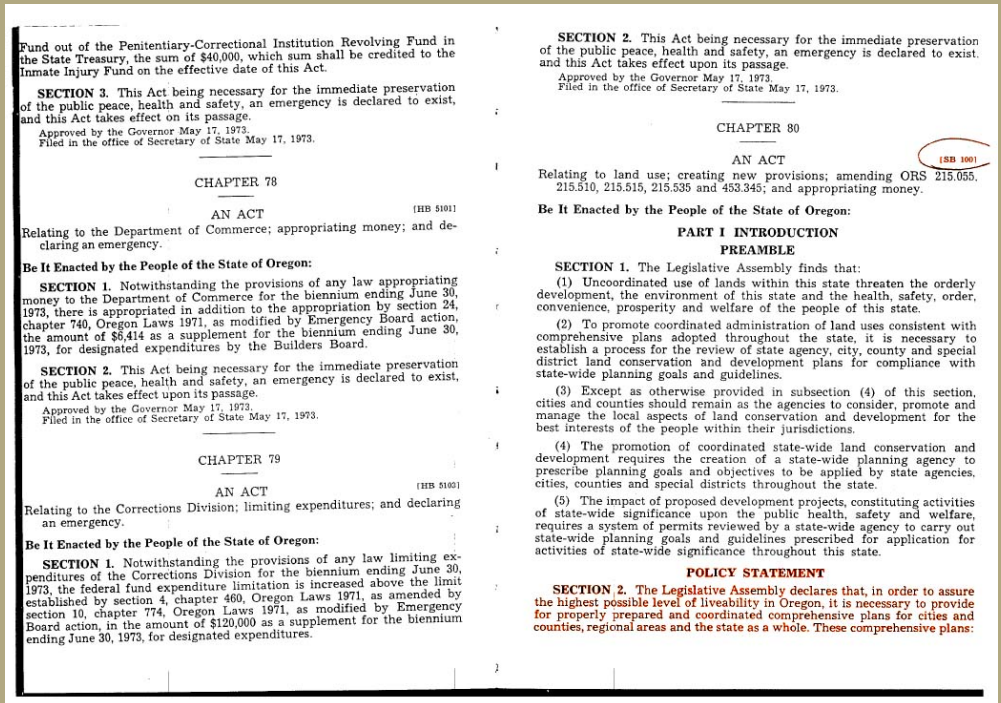


Oregon Senate Bill 100, 1973

Requires all local governments to prepare comprehensive plans and implementation ordinances

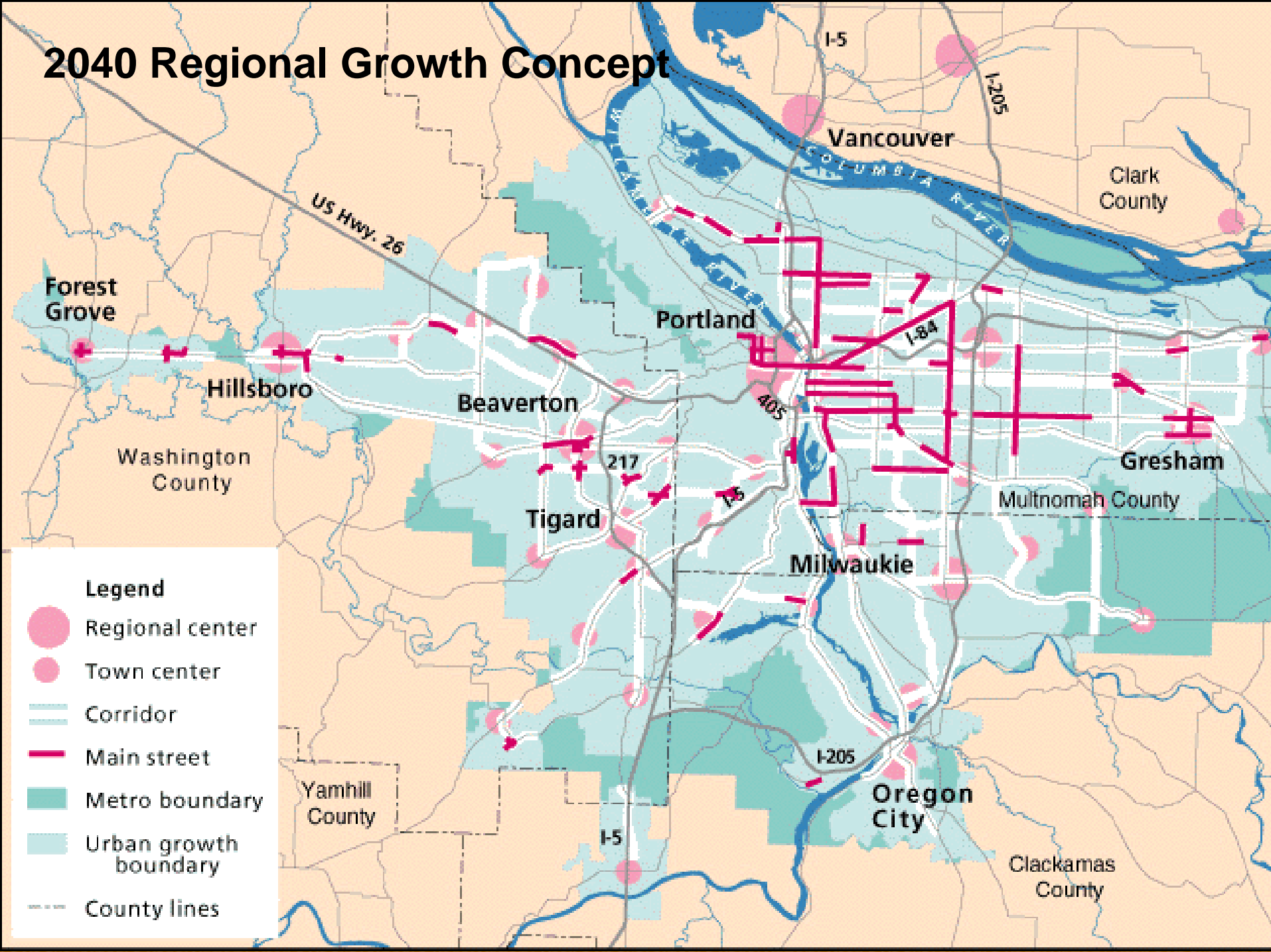
Plans have force of law

Communities required to establish urban growth boundaries





2040 Regional Growth Concept





Central City Redevelopment Projects

South Waterfront



Pearl District



- 1979 Energy Policy
- 1990 Energy Policy (major revision)
- 1992 Recycling and Waste Reduction Strategy
- 1993 CO₂ Reduction Strategy
- 2000 Green Building Policy
- 2001 Local Action Plan on Global Warming (major revision to CO₂ Reduction Strategy)



CITY of PORTLAND

Carbon Dioxide Reduction Strategy

November 10, 1993



Global warming plan

- Technical analysis
- Public involvement
- Objectives related to:
 - Transportation
 - Energy efficiency
 - Renewable energy sources
 - Waste reduction & recycling
 - Forestry and carbon offsets



Transportation choices

- Starts with thoughtful development decisions--mixed use, transit-oriented development
- Important (expensive) infrastructure
 - Light rail lines and streetcar
- But also inexpensive behavior change
 - Bicycling
 - Car sharing
 - TravelSmart



Museum Place South

Downtown Portland

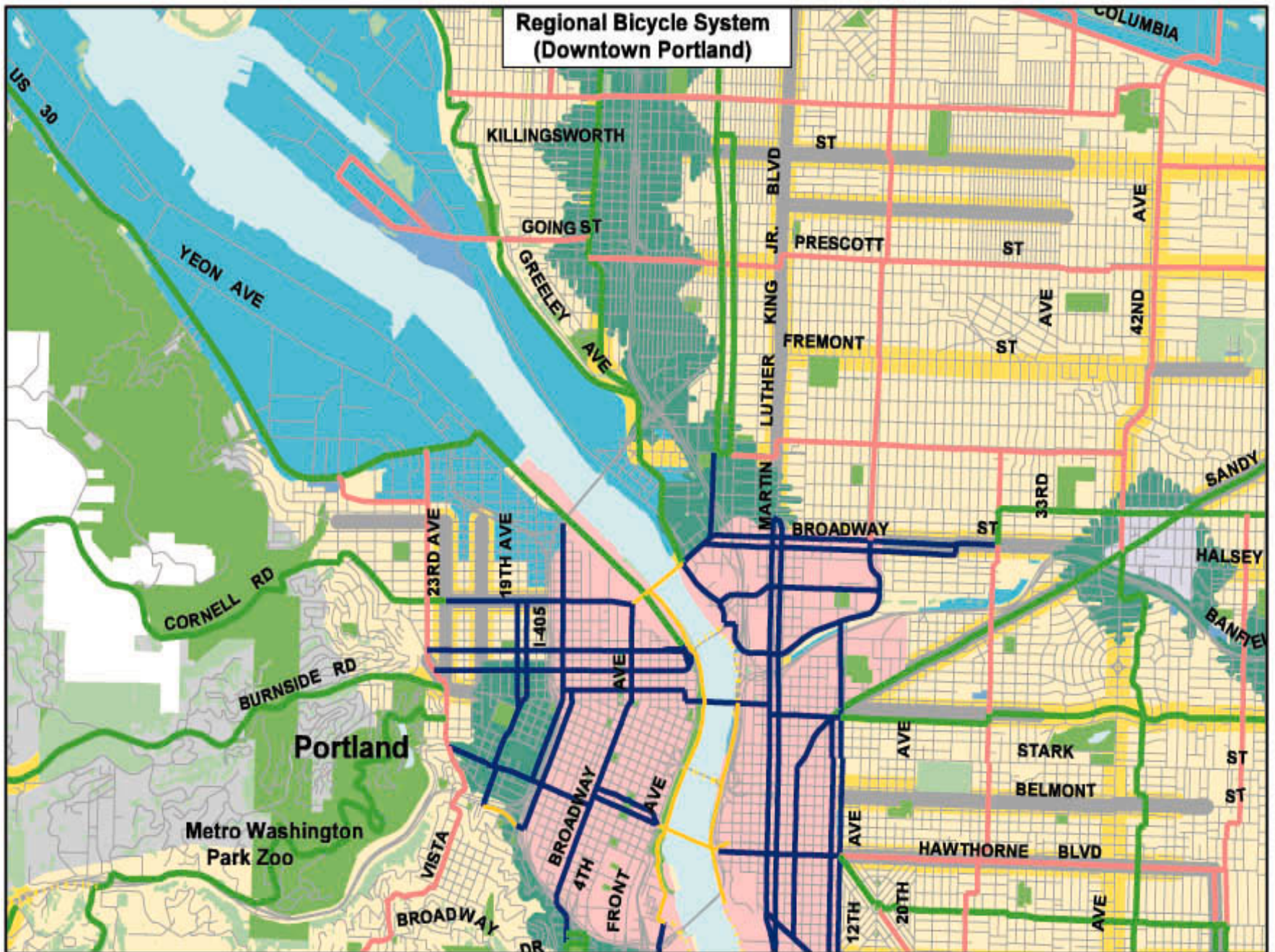




➤ Light rail system continues to expand





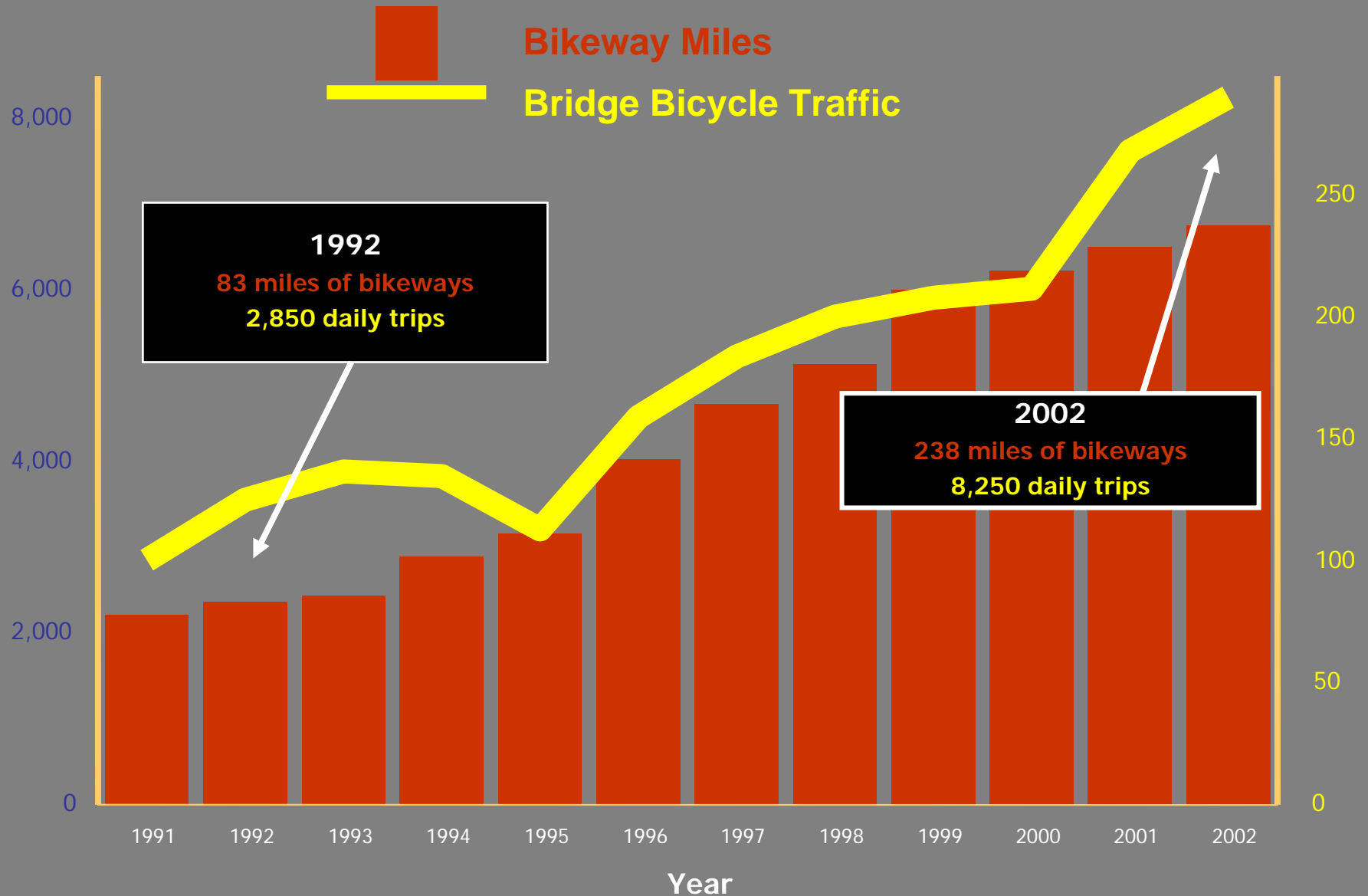




STOP
HERE ON
RED



Portland bicycle use





RESERVED
for
Flexcar
Vehicles Only

Flexcar

Flexcar

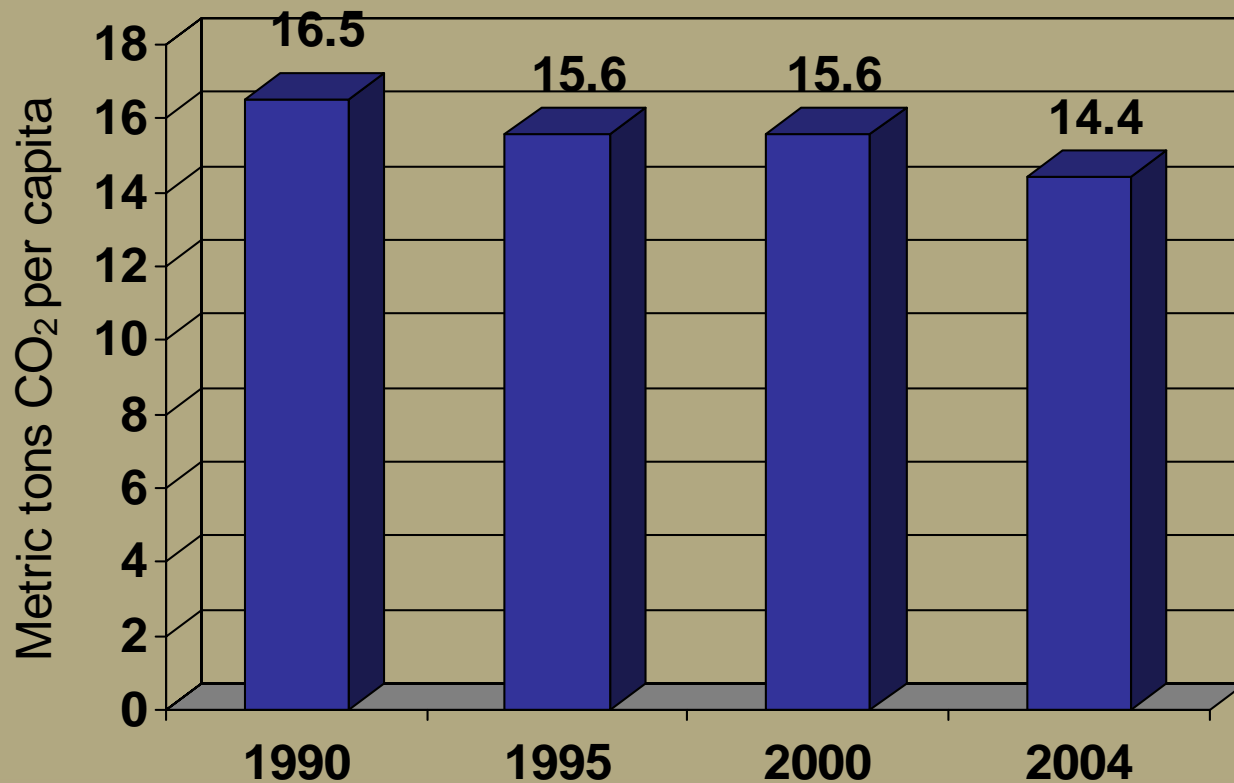
FLEX CAR FLEX CAR

TravelSmart

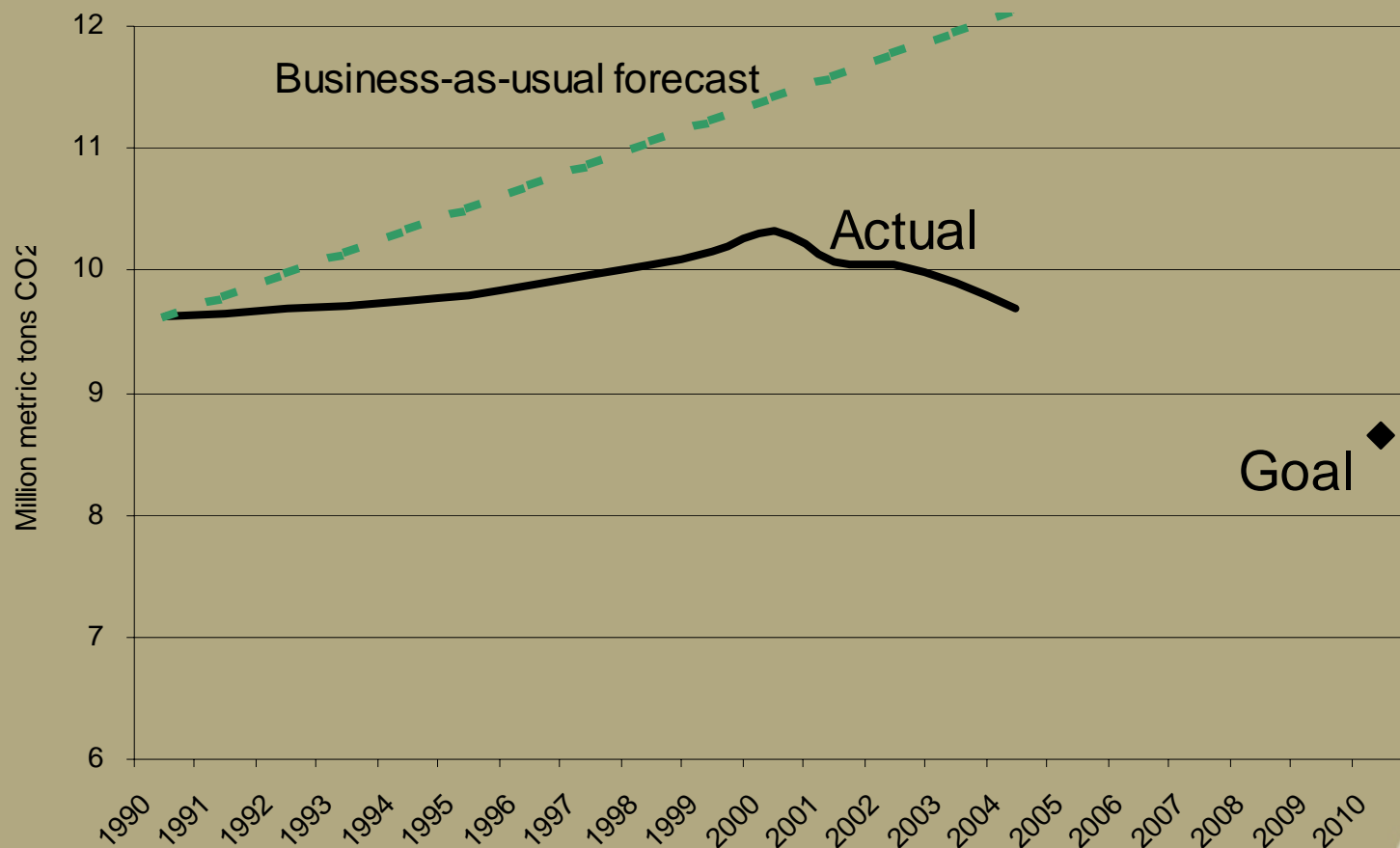
- “I can make your transportation system more efficient. . . without touching it.”
 - Werner Brog, SocialData
- Provides customized assistance to citizens who express an interest in reducing vehicle use
- Pilot reduced auto trips by 9%
- www.pdxtrans.org/options/travelsmart.htm



Per capita CO₂ emissions in Multnomah County
(Portland) have decreased 12.5% since 1990
while the local economy grew by 75%

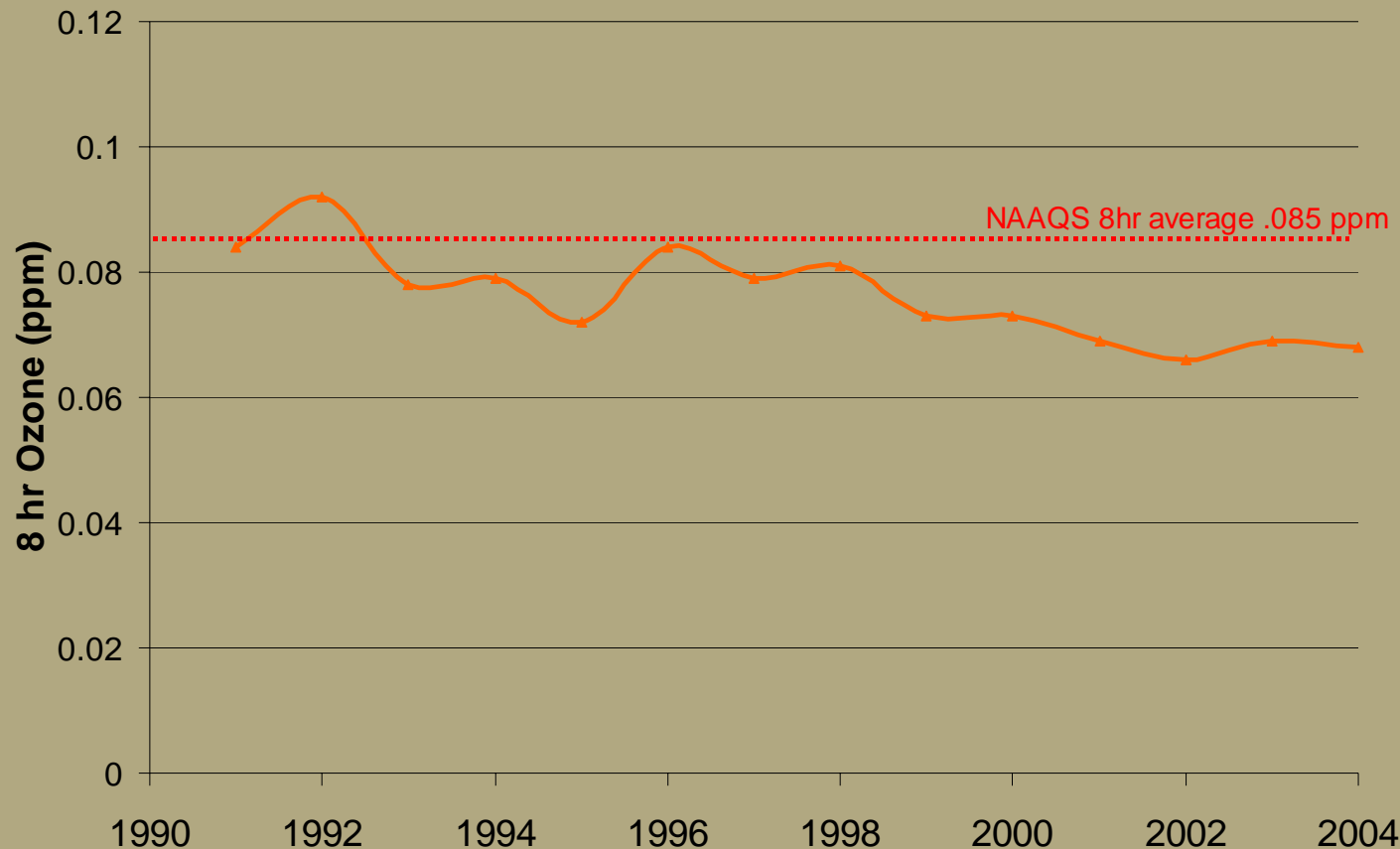


Multnomah County, Oregon CO₂ Emissions



Portland 8-hour Ozone Trend (1991-2004)

3yr average of 4th highest 8-hour Ozone Value



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